

Work Order ID 88959

88959

Page 1

August 13, 2012 7:32:33 AM

Item ID: D6104-007 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Round Billet, 17-4
 Start Date: 8/13/12 Start Qty: 30.00 ***30*** Cust Item ID:
 Required Date: 8/17/12 Req'd Qty: 30.00 ***30*** Customer:
 Reference:

Approvals: Process Plan: CL Date: 12/08/13 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D6104	Rev B								

100 PURCHASING 0.00

100

Purchasing

Purchasing

Memo

0.00

Issue P/O: 17466 a)Description: S.S round billet b) Ø4.50" x 5.10" long c) Tolerance on all dimensions are +0.030"/-0.000" d) Material: 17-4PH Stainless steel (Ams 5643 or Aisi 630)e)One blank makes 2 partsf) Material certification required

12-08-13

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Packaging

Memo

0.00

Ensure material certification is attached

30x SP
12-8-22

120 QC6- Inspect dimensions to drawing 0.00

120

QC

Quality Control

Memo

0.00

Ensure Material certification comply to Dwg D6104

DAS
14
9-89 12/08/23

30

DAS
16
9-89 12/08/23

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION <div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">Rework <input type="checkbox"/></div> <div style="text-align: right;">Skid-tube <input type="checkbox"/></div> <div style="text-align: right;">Crosstube <input type="checkbox"/></div> <div style="text-align: right;">Water Jet <input type="checkbox"/></div> <div style="text-align: right;">Engineering <input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">Scrap <input type="checkbox"/></div> <div style="text-align: right;">Machining <input type="checkbox"/></div> <div style="text-align: right;">Small Fab <input type="checkbox"/></div> <div style="text-align: right;">Prod. Eng. Coord. <input type="checkbox"/></div> <div style="text-align: right;">Quality <input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">Use-as-is <input type="checkbox"/></div> <div style="text-align: right;">Thermoforming <input type="checkbox"/></div> <div style="text-align: right;">Finishing <input type="checkbox"/></div> <div style="text-align: right;">Rec/Store/Packaging <input type="checkbox"/></div> <div style="text-align: right;">Other <input type="checkbox"/></div> </div> <div style="display: flex; justify-content: space-around;"> <div style="text-align: right;">Work Order Update <input type="checkbox"/></div> <div style="text-align: right;">Large Fab <input type="checkbox"/></div> <div style="text-align: right;">Composite <input type="checkbox"/></div> <div style="text-align: right;">Supplier <input type="checkbox"/></div> </div>		AGAINST DEPARTMENT/PROCESS					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY									
Landing Gear			General						
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain	<input type="checkbox"/> Ovalized	<input type="checkbox"/> Pressure/Forced					
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware	<input type="checkbox"/> Over/Under tolerance	<input type="checkbox"/> Temperature/Cure					
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete	<input type="checkbox"/> Part Incorrect	<input type="checkbox"/> Weld					
<input type="checkbox"/> Crushed/Crimped.	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Part Lost/Missing	<input type="checkbox"/> Wrong Stock Pulled					
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Part Moved						
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Positioned Wrong						
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Other					
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset							
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration							
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence							
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions							

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August 13, 2012 7:32:33 AM

Item ID: D6104-007 Accept *N900040100* Setup Start *NS1*
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 Start Date: 8/13/12 Start Qty: 30.00 *30* Cust Item ID:
 Required Date: 8/17/12 Req'd Qty: 30.00 *30* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: <i>moding</i>	0.00							
130									
Packaging	Memo	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

U, 1208.29

MLJ 12/08/30

NCR: Yes / -- No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: . . .

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data <input type="checkbox"/>											
Equip/Tooling <input type="checkbox"/>											
Operator <input type="checkbox"/>											
Material <input type="checkbox"/>											
Setup <input type="checkbox"/>											
Other <input type="checkbox"/>											
Process <input type="checkbox"/>											
Supplier <input type="checkbox"/>											
Training <input type="checkbox"/>											
Unapproved <input type="checkbox"/>											

FAULT CATEGORY				
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped. <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Page 1 of 2

Shipment No: 1435290

Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Ship To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		Deliver To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Date Shipped 20-AUG-2012	F.O.B. ORIGIN	Freight Terms Prepaid		Carrier MANITOULIN		BOL No 1435290-2	

Shipment Details

Final Destination Branch - MON

Order No 2365405	Line No 1	Item No 14998.MO	Description 4.5000.RD.17CR-4NI.STAINLESS.RT.SOL TR.COND A.132.0000-156.0000 CUT TO 5.1 IN (+ .1250/- .0000 IN) - BAND SAW CUTTING SPECIFICATIONS: AMS-5643				
Purchase Order No PO17666 L3		Part Number YOUR ITEM NUMBER: D6104-007P		Ordered Qty 30.00 PCS		Invoice Qty 30.00 PCS	
Details							
Delivery No.	Mill	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
117885041	NORTH AMERICAN STAINLESS	B3D2		24			567.4232
117885041	OUTOKUMPU STAINLESS INC.	528808		5			118.2132
117885041	OUTOKUMPU STAINLESS INC.	527171		1			23.6426

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 20-AUG-2012 02:15:25 PM



Castle Metals®

A. M. Castle & Co.

PACKING SLIP/
CERTIFICATE OF CONFORMANCE

Reviewed by Authorized Castle Metals Representative:		Date:	Name:
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Page 2 of 2

Castle Metals FP

HEAT NUMBER B3D2
MECHANICAL ID _____
ITEM CODE 14998
LOT NUMBER _____
PO NUMBER 153268
RECEIPT DATE 2/16/12
SUPPLIER NAS
SPECIFICATION _____
LCS NO
COMMENT _____
APPROVED B.J.

DAS
14
9-89

12/08/23



METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 711588 21	Mail To: A.M. CASTLE AND COMPANY 1420 KENSINGTON ROAD-SUITE 220 OAK BROOK IL 60523	Ship To: A.M. CASTLE AND COMPANY 3400 NORTH WOLF ROAD FRANKLIN PARK IL 60131	Date: 2/14/2012 Page: 1 Of 1
Customer: 0032 001			Steel: 630(17-4)
NAS Order: LN 80630 8			Finish: Hot Finish
Your Order: 153268	Item Code: 14998		Dia/Thk: 4.5000 in
			Leg Length: 144.00 in
			Corrosion:

PRODUCT DESCRIPTION:

AMS 2303E, AMS 5643R
Round Bar, Hot Rolled, Annealed, Rough Turned
UNS S17400; EN 10204 3.1B, ASTM A484/10
ASTM A564/10 ASME SA564-07

REMARKS:

COMPLIES W/REQUIREMENTS OF DFARS EU DIRECTIVE 2002.95.
EC. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BE38003 1972	BE38007 2674								

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Heat	Supplier #	CM	C	CB	CO	CR	CU	MN	MO	N	NI	P
B3D2		US	.042	.218	.16	15.60	3.18	.84	.25	.043	4.31	.025
			S	SI	TA	TI						
			.0265	.54	.0050	.0020						

MECHANICAL PROPERTIES

	1 d o i c r	HB No.	Ferrite %	TS-900CAP KSI	YS-900CAP KSI	EL-900CAP %	RA-900CAP %	RC-900CAP No.	FREQ. No.	SEV. No.
BE38003	R L	352.0	.73	200.38	180.71	12.93	48.31	43.5	.30	.27
BE38007	R L	352.0	.73	200.38	180.71	12.93	48.31	43.5	.30	.27

DAS
14
2-89 12/08/23

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

Technical Dept. Mgr.

ERIC HESS

DAS 14 9-89
12/08/23

Castle Metals FP

HEAT NUMBER 527171
MECHANICAL ID _____
ITEM CODE 14998
LOT NUMBER _____
PO NUMBER 88513
RECEIPT DATE 5-26-2001
SUPPLIER DU TO KUMPP
SPECIFICATION _____
LCS NO
COMMENT _____
APPROVED PL



Certificate of Test

HEAT 527171 ORDER 619369/ 06 BOL 0212135 * CERTIFICATION * 05/23/11

SHIP-TO:
A. M. CASTLE METALS
3400 NORTH WOLF ROAD

FRANKLIN PARK 601310000

88513

YOUR ORDER & DATE
5/23/11 CUST# 0254001 CUST TAG#14998

ITEM DESCRIPTION
GRADE 17-4 Ship Condition CONDA
Size 17-4 RND HRART CONDA 4.5000 x 144.000 RL
Country of Melt: SWEDEN Country of Mfg.: UNITED STATES
NAFTA Country of Origin is Country of Melt
No weld repair
Free of mercury contamination, Free of radiation contamination
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 1 Total Weight 2065

WO 2016769 Bundles: 1G

SPECIFICATIONS
MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED SWEDEN
AMS 2303F AMS 5643R
UNS S17400, AISI 630 ASME SA564 E10
ASTM A484 11 ASTM A564 10 Type 630
DFARS 252.225.7014 6/05 AMC 3174-02 R31
Sol Ann 1900F/1Hr/Rapid Cool AISI 630, UNS S17400
Reduction Ratio 3:1 minimum
H900 capability sample aged at 900F/1hr/AC then tensile and HRC tested

MECHANICAL & OTHER TESTS
Hardness as shipped 294 HB Hardness as tested 421 HB
Hardness as shipped 031 HRC Hardness as tested (45 HRC)
Grain size 5.5 Tensile strength, KSI (MPa) 200.0 (1379)
Micro OK 0.2% Yield Strngth, KSI (MPa) 180.0 (1241)
Intergranular corrosion OK
Macro OK
Elongation % in 4D 12.0
Ferrite .0 Reduction of area % 44.0

CHEMICAL COMPOSITION
Carbon (C) .010 Manganese (Mn) .710
Phosphorus (P) .025 Sulphur (S) .025
Silicon (Si) .360 Chromium (Cr) 15.320
Nickel (Ni) 4.680 Cobalt (Co) .036
Copper (Cu) 3.420 Moly (Mo) .170
Nitrogen (N) .021 Columbium (Cb) .230
Titanium (Ti) .005 Aluminum (Al) .003
Tin (Sn) .006 Cerium (Ce) .010
Boron (B) .001 Tantalum (Ta) .005
Vanadium (V) .036
Columbium/ Tantalum (Cb+Ta) .235
Iron (Fe) Balance
Frequency .000
Melt Practice EAF
Refining Practice AOD
De-long Ferrite
Severity .000

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes. We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager

M.F. Marcanio

14
12/08/23

Castle Metals PP

HEAT NUMBER 528808
MECHANICAL ID _____
ITEM CODE 14998
LOT NUMBER _____
PO NUMBER 96669
RECEIPT DATE 8/29/11
SUPPLIER Auto Kumpu
SPECIFICATION _____
LCS NO
COMMENT _____
APPROVED 135

DAS
14
8-83

12/08/23



Certificate of Test

HEAT 528808 ORDER 620809/ 05 BOL 0213543 * CERTIFICATION * 08/25/11

SHIP TO:
A. M. CASTLE METALS
3400 NORTH WOLF ROAD

FRANKLIN PARK 601310000

96669

YOUR ORDER & DATE
8/25/11 CUST# 0254001 CUST TAG#14998

ITEM DESCRIPTION
GRADE 17-4 Ship Condition CONDA
Size 17-4 RND HRART CONDA 4.5000 x 144.000 RL
Country of Melt: SWEDEN Country of Mfg.: UNITED STATES
NAFTA Country of Origin is Country of Melt
No weld repair
Free of mercury contamination, Free of radiation contamination
No WEEE relevant substances; Meets EU electrical ROHS

Total Bundles 1 Total Weight 2315

WO 2019862 Bundles: 1A

SPECIFICATIONS
MFG TO FINISHED BAR IN THE USA FROM BILLETS IMPORTED SWEDEN
AMS 2303F AMS 5643R
UNS S17400, AISI 630 ASME SA564 E10 A11a
ASTM A484 11 ASTM A564 10 Type 630
DFARS 252.225.7014 6/05 AM Castle 3174-02 R33
Sol Ann 1900F/1Hr/Rapid Cool AISI 630, UNS S17400
Reduction Ratio 3:1 minimum
H900 capability sample aged at 900F/1hr/AC then tensile and HRC tested

MECHANICAL & OTHER TESTS
Hardness as shipped 311 HB Hardness as tested 400 HB
Hardness as shipped 033 HRC Hardness as tested (43 HRC)
Grain size 6.0 Tensile strength, KSI (MPa) 202.0 (1393)
Micro OK 0.2% Yield Strngth, KSI (MPa) 178.0 (1227)
Intergranular corrosion OK
Macro OK Elongation % in 4D 14.0
Reduction of area % 44.0


CHEMICAL COMPOSITION
Carbon (C) .009 Manganese (Mn) .730
Phosphorus (P) .022 Sulphur (S) .024
Silicon (Si) .370 Chromium (Cr) 15.470
Nickel (Ni) 4.740 Cobalt (Co) .044
Copper (Cu) 3.370 Moly (Mo) .190
Nitrogen (N) .025 Columbium (Cb) .340
Titanium (Ti) .003 Tin (Sn) .005
Cerium (Ce) .010 Boron (B) .013
Tantalum (Ta) .005 Vanadium (V) .048
Columbium/
Tantalum (Cb+Ta) .350
Iron (Fe) Balance
Frequency .000 Severity .000
Melt Practice EAF
Refining Practice AOD
De-long Ferrite

Knowingly & willfully falsifying or concealing a material act on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under federal statutes. We hereby certify that the test results shown in this report are correct and accurate as contained in the records of the company and are in compliance with the specifications, codes, and standards listed above.

M.F. Marcanio, Quality Manager

M.F. Marcanio

63800

BON DE CONNAISSANCE NOMINATIF ABRÉGÉ - ORIGINAL - NON NEGOCIABLE STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE REÇU, Sujet aux classifications et tarifs en vigueur à la date d'émission du présent bon de connaissance RECEIVED, Subject to the classification and tariffs in effect on the date of issue of this Bill of Lading Le bien décrit plus bas, en bon état apparent, exception faite comme noté (le contenu et la condition du contenu de l'emballage inconnus), marqué, consigné et destiné comme indiqué ci-après, que le dit transporteur (le mot « transporteur » signifiant dans ce contrat toute personne ou société en possession du bien en vertu de ce contrat) accepte de le transporter à l'endroit habituel de livraison de ladite destination, si sur sa route, ou sinon de le livrer à un autre transporteur en route vers ladite destination. Il est mutuellement accepté, par chacun des transporteurs de toute ou n'importe quel dit bien, en totalité ou en partie de la route à destination, et par chaque partie intéressée par la totalité ou n'importe quelle partie du bien à n'importe quel moment, que chaque service a être exécuté tel que décrit ci-après est sujet à toutes les modalités et conditions générales du bon de connaissance nominatif « Uniform Domestic Straight Bill of Lading » présenté (1) dans la Classification uniforme de transport en vigueur à la date des présentes, s'il s'agit d'une expédition par voie ferroviaire ou par route, ou s'il s'agit d'une expédition par voie maritime, ou par tout mode de transport applicable au transport. The property described in this bill of lading is not to be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classification in effect on the date hereof, if this is a rail or water shipment, or (2) in the applicable motor carrier classification or tariff this is a motor carrier shipment.		No du livreur / Shipper No.: 1435290-2 De - A / FROM AT: A. M. Castle & Co. 835-SELKIRK AVENUE POINTE CLAIRE QC H9R 3S2 CAN d expédition / Ship Date: 20-AUG-2012
MANITOULIN TRANSPORT 1-800-265-1485  17183000		of contents of the word carrier being property under the care to deliver to any said property all or any of said
Consigné à / Consigned To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY ON K6A 1K7 CAN	Directives de livraison / Delivery instructions: TOUS LES CHARGEMENTS DOIVENT ÊTRE COUVERTS. LA LISTE D'EMBALLAGE DE LIVRAISON ET LES RAPPORTS DE TEST OU CONSIGNATAIRES REFUSERONT. ALL LOADS MUST BE TARPED. DELIVER PACKING LIST AND TEST REPORTS OR CONSIGNEE WILL REFUSE.	Modalités de paiement / Payment Terms: Prepaid REMETTRE LES FACTURES DE TRANSPORT À / REMIT FREIGHT INVOICES TO: RayTrans Management, Inc. 1501 Reedsdale Street STE 3001 Pittsburgh, PA. 15233
Nom du Transporteur / Carrier Name: MANITOULIN		Couverture d'assurance additionnelle / Additional Insurance Coverage: La valeur acceptée ou déclarée de la propriété ci bas spécifiée par le transporteur n'excède pas : The agreed or declared value for the property is hereby specifically stated by the shipper to be not exceeding: _____ par / per _____

Détail de livraison / Shipment Breakdown:

Quantité / Quantity	Emballage / Packaging	Classe / Class	Commodity
1	BOX	FAK 50	Metal Product

Poids du Chargement / Shipment Weights:

Produit / Product	709 LBS
Dunnage	0 LBS
Gross	709 LBS

TOTAL 1 Box

ORDER DETAIL:

Bon de commande du client / Customer PO	No de commande du client / Sales Order No.	No de ligne / Line No.	No. d'Item Castle / Castle Item No.	Quantité livrée / Quantity Shipped	Castle UOM
PO17666 L3	2365405	1	2365405*1*1	30	PCS

Sujet à la section 7 des Conditions générales du Bon de connaissance applicable. Si cette expédition est livrée au consignataire sans recourir à l'expéditeur, l'expéditeur doit signer les déclarations suivantes. Subject to Section 7 of Conditions of applicable bill of Lading. If this shipment is to be delivered to the consignee without recourse to the consignor, the consignor shall sign the following statements. Le transporteur ne doit pas livrer ce chargement sans avoir acquitté les frais de transport et les charges légales. The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.	Si l'expédition se déplace entre deux ports par un transporteur par voie maritime, la loi exige que le bon de connaissance stipule s'il s'agit « du poids du transporteur ou de l'expéditeur ». NOTE : Là où la charge est en fonction de la valeur, les expéditeurs doivent déclarer spécifiquement par écrit la valeur du bien acceptée ou déclarée. If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE: Where the rate is dependent on value, the shippers are required to state specifically in writing the agreed or declared value of the property.
CETTE EXPÉDITION DOIT ÊTRE REÇUE ET TRANSPORTÉE CONFORMÉMENT À TOUTES LES MODALITÉS ET CONDITIONS GÉNÉRALES DU BON DE CONNAISSANCE COMPAGNIES DE NAVIGATION. THIS SHIPMENT IS TO BE TENDER RECEIVED AND TO BE CARRIED SUBJECT TO ALL TERMS AND CONDITIONS OF THE STEAMSHIP COMPANIES CURRENT FORM BILL OF LADING	L'expéditeur déclare spécifiquement que la valeur acceptée ou déclarée du bien ne dépasse pas. The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
CE DOCUMENT CERTIFIE QUE LES ARTICLES MENTIONNÉS CI-DESSUS SONT PROPREMENT CLASSIFIÉS, DÉCRITS, EMBALLÉS, MARQUÉS ET IDENTIFIÉS, ET SONT EN ÉTAT D'ÊTRE TRANSPORTÉS CONFORMÉMENT AUX RÈGLEMENTS DU MINISTÈRE DES TRANSPORTS. THIS IS TO CERTIFY THAT THE ABOVE NAMED ARTICLES ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED, MARKED AND LABELED, AND ARE IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO THE APPLICABLE REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION.	Le client est responsable de tous les documents d'expédition et de se conformer à toutes les lois canadiennes et américaines incluant, mais sans s'y limiter, les lois et règlements américains et canadiens relatifs à l'exportation. Customer is responsible for all shipping documents and compliance with United States and Canadian laws, including but not limited to U.S. and Canadian Export laws and regulations.

1 PAL (PK)
 837099 DP

Michael Wockner

No du livreur / Shipper No.: 1435290-2

EXPÉDITEUR - PAR /
SHIPPER, PER:

MICHAEL WOCKNER
insérer le nom du créateur /
insert creator's name

Par /
Per

Michael Wockner

Signature du conducteur / Date

Driver's Signature

8 20 12

Name

PREUVE DE LIVRAISON /
PROOF OF DELIVERY:

Signature / Date

Please Print Name Here

Toutes les pages doivent être signées/ All pages must be signed

Page 2 of 2



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17666

Purchase Order Date 8/13/2012

PO Print Date 8/13/2012

Page Number 1 of 1

Order From :

VC-MET001

METAUX CASTLE

A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100
TORONTO, ON M4Y 3A5
CA

Contact Name

Vendor Phone 514 694 9575

Vendor Fax 514 695 3281

Vendor Account Nbr

Buyer

Brigitte Golden

Requisition Nbr

Tax Resale 0127-2607

Terms Net 30

Currency CAD

FOB Destination-Collect

Ship To :

DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price
1	D6101-005P <i>acc'd 10</i>	7075-T7351 8.25X5.0X2.5	8/20/2012 Yes	50.00 Each	Yours ppd	\$57.9500
Special Inst: As per DWG: D6101 Rev: B B88960						
2	D6104-005P	17-4 SS Roundbar 4.00"OD	8/20/2012 Yes	30.00 Each	Yours ppd	\$79.0000
Special Inst: As per DWG: D6104 Rev: B B88958						
3	D6104-007P	17-4 SS Roundbar 4.50"OD	8/20/2012 Yes	30.00 Each	Yours ppd	\$102.0000
Special Inst: Same as above B88959						

PO Total:

Change Nbr: 2

Change Date: 8/13/2012

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required YES

